

PATENT

Docket No. 1377-0137P

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: John Kevin Collins *et al.*

APPLN. NO.: 09/367,105

GROUP: 1651

FILED: November 10, 1999

EXAMINER: I. Marx

FOR: PROBIOTIC STRAINS FROM
LACTOBACILLUS SALIVARIUS AND
ANTIMICROBIAL AGENTS OBTAINED
THEREFROM

DECLARATION UNDER 37 C.F.R. § 1.32

Assistant Commissioner of Patents

Washington, DC 20231

Sir:

I, Atte von Wright, a Finnish citizen, am presently employed at the University of Kuopio, PO Box 1627, FIN-70211, Kuopio, Finland, where I am a Professor of Nutrition and Food Biotechnology. My *Curriculum Vitae* is attached hereto. I do solemnly and sincerely declare as follows:

1. I have read the Office Action dated June 19, 2001, each of the three cited references and a copy of the specification of the above U.S. Application.

2. I have also read a draft of the Declaration to be made by Dr. Liam O'Mahony by way of response and I fully agree with the statements contained in that Declaration as regards the cited references relied on by the Examiner.
3. In my view that novel and inventive approach taken by Collins *et al.* to isolate *Lactobacillus salivarius* strains with potential application to human healthcare was unprecedented.
4. The stains of *Lactobacillus salivarius* isolated by Collins *et al.* from appendices and sections of the large and small intestine of the human gastrointestinal tract obtained during reconstructive surgery represents a significant departure from previous methods for isolating probiotic bacteria.

I hereby declare that all statements made herein of my own knowledge are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the Application or any patent issued thereon.

December 12, 2001

Date

Atte von Wright

Atte von Wright

Curriculum Vitae

Family name: Von Wright

Christian names: Atte Johannes

Date and Place of Birth: February 27, 1952, Kuopio, Finland

Social security number: 270252-157H

Marital status: Married with three children (22, 19 and 15 years)

Current position: Professor of Nutritional and Food Biotechnology, Institute of Applied Biotechnology, University of Kuopio, from January 1 st, 2000 onwards.

Education and training:

- Matriculation examination, May 31, 1971, Kuopio lyseo, Kuopio, Finland
- Graduated from the University of Helsinki, Helsinki, Finland, on November 11, 1975 with General Microbiology as the main subject

Post graduate studies:

- Degree of Licentiate of Philosophy, University of Helsinki, May, 25, 1978
- PhD, University of Sussex, England, July 21, 1981 (Thesis *The response of Escherichia coli to DNA damage*, supervisor Professor Bryn A. Bridges)

Special courses:

- Basic university course in Mathematics (approbatur level), University of Helsinki, 1988
- Basic university course in Computer Science (approbatur level), University of Kuopio, Kuopio, Finland, 1990
- Basic university course in Physics (approbatur level), University of Kuopio, Finland, 1995
- Special training course in Gene Technology, University of Helsinki (October 29 - November 16, 1984)
- Genetic Manipulation of Streptomyces, European Molecular Biology Organization-Course, John Innes Institute, Norwich, England; July 14-28, 1990
- Comett II, Modern Biotechnological Tools in Industrial Research and Development, Module V: Microbial Physiology and Industrial Fermentation, January 24-28, 1994, Technical University of Denmark, Lyngby, Denmark

Scientific interests:

- Genetic toxicology and mechanisms of mutagenesis
- Genetics and molecular biology of lactic acid bacteria
- Natural bioactive compounds
- Probiotics and prebiotics
- Food safety and hygiene

Visits:

- TNO-Centraal Instituut voor Voedingsonderzoek, Zeist, The Netherlands; Trainee January 1st-May, 15; 1977
- University of Sussex, MRC Cell Mutation Unit, Sussex, England; Post-graduate student; November 1st, 1978 - November 15, 1980
- The Public Health Research Laboratory of The City of New York, and Department of Food Microbiology, University of Minnesota, Minneapolis-St.Paul; Visiting scientist, August 4, 1983 - April 30, 1984
- The Royal Veterinary and Agricultural University of Denmark, Dept. of Dairy and Food Science, Frederiksberg, Denmark; Temporary Associate Professor July 1st, 1992-June 30, 1993.

Previous appointments:

- Scientist in Technical Research Centre of Finland (VTT), Food Research Laboratory, September 1976 - April 1983, specializing in the genetic toxicology of foods.
- Senior Scientist in The Research and Development Centre of Valio Finnish Cooperative Dairies' Association specializing in the gene technology of lactic acid bacteria; May 1983 - April 1989.
- Senior Research Fellow in University of Kuopio, Dept. of Pharmaceutical Chemistry specializing in the bioactive compounds of microbial origin; May 1989 - August 1995 (with one year absent because of the visit to the Royal Veterinary and Agricultural University of Denmark)
- Senior Research Scientist (Group Manager from January 1996 onwards) in VTT Biotechnology and Food Research, September 1995 - July 1998.
- Planning Professor, University of Kuopio, Department of Biochemistry and Biotechnology with a special task to plan a new academic curriculum (Nutrition and Food Biotechnology). Located from January 1st 1999 onwards in a new department, Institute of Applied Biotechnology. August 1998 - December 1999

Functions as a teacher:

- Docent (Senior reader) in general microbiology, University of Helsinki, Department of General Microbiology, May 1982 onwards
- Docent in microbial genetics, University of Kuopio, Department of Biochemistry and Biotechnology, October 1st, 1990 - March 31, 1996
- Docent in the biotechnology of microbial bioactive compounds, University of Kuopio, Department of Pharmaceutical Chemistry, April 1st, 1996 onwards

Supervision of completed PhD projects:

- **Stephen Wessels**, 1993, Food grade genetic modification of dairy bacteria (The Royal Veterinary and Agricultural University, Frederiksberg, Denmark)
- **Soile Tynkkynen**, 1994, Molecular characterization of the oligopeptide transport system of *Lactococcus lactis* (University of Helsinki)
- **Jussi Holmalahti**, 1998, Further characterization of antitumour antibiotics from *Streptomyces* strains (University of Kuopio)
- **Anne Gravesen**, 1996, Replication and incompatibility of lactococcal theta-replicating plasmids (The Royal Veterinary and Agricultural University, Frederiksberg, Denmark)
- **Pia Kontula**, 1999, *In vitro* and *in vivo* characterization of potential probiotic lactic acid bacteria and prebiotic carbohydrates (University of Helsinki)

Supervised also four Finnish Licentiate of Philosophy thesis, and twenty Finnish graduation projects. Acted as a referee for eleven Finnish PhD-thesis and as an external examiner ("opponent") for one Swedish, one Irish, one Dutch and six Finnish PhD-thesis.

Expert functions:

Expert of the Finnish Ministry of Agriculture and Forestry for the evaluation of microbial feed additives

Member of the EU DGXII Scientific Committee on Animal Nutrition (SCAN), from November 1997 onwards.

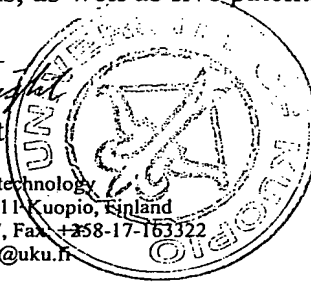
Member of the Finnish Novel Food Board from 2000 onwards

Publications:

Altogether 63 accepted original research articles and twelve reviews in international refereed publications. Acted both as a writer and an editor for four textbooks, two of which are in international circulation. In addition there are 19 reviews, research reports, and short research papers in Finnish periodicals and textbooks, as well as five patents.

December 12, 2001

Atte von Wright
Atte von Wright
University of Kuopio
Institute of Applied Biotechnology
P.O.Box 1627, FIN-70211 Kuopio, Finland
Phone: +358-17-162087, Fax: +358-17-163322
e-mail: Atte.vonWright@uku.fi



ATTE von WRIGHT

List of Publications

1. Scientific Publications

1. **Atte von Wright, Aimo Niskanen and Heikki Pyysalo:** The toxicities and mutagenic properties of ethylidene gyromitrin and N-methylhydrazine with *Escherichia coli* as test organism. **Mutation Research** (1977) 56:105-110.
2. **Atte von Wright, Aimo Niskanen, Heikki Pyysalo and Heikki Korpela:** The toxicity of some N-methyl-N-formylhydrazones and related compounds in mice and microbial tests. **Toxicology and Applied Pharmacology** (1978) 45:429-434.
3. **Atte von Wright, Aimo Niskanen and Heikki Pyysalo:** Mutagenic properties of ethylidene gyromitrin and its metabolites in microsomal activation tests and in host-mediated assay. **Mutation Research** (1978) 54:167-173.
4. **Atte von Wright, Heikki Pyysalo and Aimo Niskanen:** Quantitative evaluation of the metabolic formation of methylhydrazine from acetaldehyde- N-methyl-N-formylhydrazone, the main poisonous compound of *Gyromitra esculenta*. **Toxicology Letters** (1978) 35: 261-265.
5. **Seppo Lindroth and Atte von Wright:** Comparison of the toxicities of patulin and patulin adducts formed with cysteine. **Applied and Environmental Microbiology** (1978) 58: 1003-1007.
6. **Atte von Wright and Seppo Lindroth:** The lack of mutagenic properties of patulin and patulin adducts formed with cysteine in Salmonella test system. **Mutation Research** (1978) 58:211-215.
7. **Atte von Wright and Leena Tikkanen:** The comparative mutagenicities of hydrazine and its mono- and dimethyl derivatives in bacterial test systems. **Mutation Research** (1980) 78: 17-23.
8. **Atte von Wright and Leena Tikkanen:** Hydrazine and methylhydrazine as *recA*⁺ independent mutagens in *Escherichia coli* . **Mutation Research** (1980) 71: 269-271.
9. **Atte von Wright and Bryn A. Bridges:** Mutagenesis of lambda phage by *tif*-expression or host irradiation functions is largely independent of damage in phage DNA. **Mutation Research** (1980) 74:325-328
10. **Atte von Wright and Bryn A. Bridges:** Effect of *tif*-expression, irradiation of the recipient and presence of plasmid pKM101 on recovery of a marker from a donor exposed to ultraviolet light prior to conjugation. **Journal of General Microbiology** (1980) 119: 327-331.
11. **Atte von Wright and Bryn A. Bridges:** Effect of *gyrB* mediated changes in chromosome structure on killing of *Escherichia coli* by ultraviolet light: Experiments with strains differing in deoxyribonucleic acid repair capacity. **Journal of Bacteriology** (1981) 146: 18-23.

12. **Bryn A. Bridges and Atte von Wright:** Influence of mutations at the *rep* gene on the survival of *Escherichia coli* following ultraviolet light irradiation or 8-methoxypsoralen photosensitization. **Mutation Research** (1981) 82:229-238.
13. **Atte von Wright:** Hydrazine and methylhydrazine as *recA*⁺ independent mutagens in *Escherichia coli*. **Chromosome Damage and Repair**, Proceedings of EMBO Lecture Course in Bergen, May 27-June 5, 1980. Plenum Press (1981) 517-520.
14. **Atte von Wright, Aimo Niskanen, Heikki Pyysalo and Heikki Korpela:** Amelioration of the toxic effects of ethyldene gyromitrin (false morel poison) with pyridoxine chloride. **Journal of Food Safety** (1981) 3:199-203.
15. **Jorma Knuutinen and Atte von Wright:** The mutagenicity of *Lactarius* mushrooms. **Mutation Research** (1982) 103:115-118.
16. **Atte von Wright, Jorma Knuutinen, Seppo Lindroth, Markku Pellinen, Karl-Gustav Widen and Eeva-Liisa Seppä** (1982) The mutagenicity of some edible mushrooms in Ames test. **Food and Chemical Toxicology** (1982) 20: 265-267.
17. **Karin Autio, Atte von Wright and Heikki Pyysalo:** The effect of oxidation of the sulfur atom on the mutagenicity of ethylenethiourea. **Mutation Research** (1982) 106:27-31.
18. **Tapani Suortti and Atte von Wright:** Isolation of a mutagenic fraction from aqueous extracts of the wild mushroom *Lactarius necator* (a preliminary note). **Journal of Chromatography** (1983) 285:529-532.
19. **Tapani Suortti, Atte von Wright and Ari Koskinen:** Necatorin, a highly mutagenic compound from *Lactarius necator*. **Phytochemistry** (1983) 22:2873-2874.
20. **Atte von Wright and Tapani Suortti :** Preliminary characterization of the mutagenic properties of "necatorin", a strongly mutagenic compound of the mushroom *Lactarius necator*. **Mutation Research** (1983) 121:103-106.
21. **Raija Kallonen, Atte von Wright, Leena Tikkanen and Kirsti Kaustia:** The toxicity of fire effluents from textiles and upholstery materials. **Journal of Fire Sciences** (1985) 3:145-160.
22. **Atte von Wright, Anna-Maija Taimisto and Seppo Sivelä:** Effect of Ca²⁺ ions on plasmid transformation of *Streptococcus lactis* protoplasts. **Applied and Environmental Microbiology** (1985) 50:1100-1102.
23. **Atte von Wright, Martin Suominen and Seppo Sivelä :** Identification of lactose fermentation plasmids of streptococcal dairy starter strains by Southern hybridization. **Letters in Applied Microbiology** (1986) 2:73-76.
24. **Atte von Wright and Soile Tynkkynen:** Construction of *Streptococcus lactis* subsp. *lactis* strains with a single plasmid associated with mucoid phenotype. **Applied and Environmental Microbiology** (1987) 53:1385-1386.
25. **Atte von Wright, Soile Tynkkynen and Martin Suominen :** Cloning of a *Streptococcus lactis* subsp. *lactis* chromosomal fragment associated with the ability to grow in milk. **Applied and Environmental Microbiology** (1987) 53:1584-1588.

26. **Atte von Wright:** Experiments on the genetics of arsenate resistance in lactic acid streptococci. *Meijeritieteellinen aikakauskirja* (1987) XLV:43-48.
27. **Soile Tynkkynen and Atte von Wright:** Characterization of a cloned chromosomal fragment associated with the ability to grow in milk. *Biochimie* (1988) 70: 531-534.
28. **Soile Tynkkynen, Atte von Wright and Eeva-Liisa Syväoja:** Peptide utilization coded by *Lactococcus lactis* subsp. *lactis* chromosomal DNA. *Applied and Environmental Microbiology* (1989) 55:2690-2695.
29. **Atte von Wright, Stephen Wessels, Soile Tynkkynen and Maria Saarela :** Isolation of a replication region of a large lactococcal plasmid and use in cloning of a nisin resistance determinant. *Applied and Environmental Microbiology* (1990) 56:2029-2035.
30. **Mervi Sibakov, Teija Koivula, Atte von Wright and Ilkka Palva:** Secretion of TEM- β -lactamase with signal sequences isolated from the chromosome of *Lactococcus lactis* subsp. *lactis* . *Applied and Environmental Microbiology* (1991) 57:341-348.
31. **Atte von Wright, Olavi Raatikainen, Hannu Taipale, Sirpa Kärenlampi and Jorma Mäki-Paakkanen:** Directly acting geno- and cytotoxic agents from a wild mushroom *Dermocybe sanguinea* . *Mutation Research* (1992) 269: 27-33.
32. **Weng Hua Ling, Osmo Hänninen, Hannu Mykkänen, M. Heikura, Seppo Salminen and Atte von Wright:** Colonization and fecal enzyme activities after oral Lactobacillus GG administration in elderly nursing home residents. *Annals of Nutrition and Metabolism* (1992) 36: 162-166.
33. **Jussi Holmalahti, Olavi Raatikainen and Atte von Wright:** Transformable mutants of a biopesticide strain *Streptomyces griseoviridis* K61. *Journal of Industrial Microbiology* (1993) 11:193-198.
34. **Atte von Wright and Kaj Rätty:** The nucleotide sequence for the replication region of pVS40, a lactococcal food grade cloning vector. *Letters in Applied Microbiology* (1993) 17:25-28.
35. **Atte von Wright and Maria Saarela:** A variant of the staphylococcal chloramphenicol resistance plasmid pC194 with enhanced ability to transform *Lactococcus lactis* subsp. *lactis*. *Plasmid* (1994) 31:106-110.
36. **Jussi Holmalahti, Atte von Wright and Olavi Raatikainen:** Variations in the spectra of biological activities of actinomycetes isolated from different soils. *Letters in Applied Microbiology* (1994) 18:144-146.
37. **Päivi Kopponen, Riitta Törrönen, Jorma Mäki-Paakkanen, Atte von Wright and Sirpa Kärenlampi:** Comparison of CYP1A1 induction and genotoxicity in vitro as indicators of potentially harmful effects of environmental samples. *Archives of Toxicology* (1994) 68:167-173.
38. **Kaj Rätty, Olavi Raatikainen, Jussi Holmalahti, Atte von Wright, Susanna Joki A. Pitkänen, Veijo Saano, A. Hyvärinen, Aino Nevalainen and Ilona Buti:** Biological activities of actinomycetes and fungi isolated from the indoor air of problem houses. *International Biodeterioration & Biodegradation*. (1995) 143-154.

39. Anne Gravesen, Jytte Josephsen, Atte von Wright and Finn K. Vogensen: Characterization of the lactococcal theta-replicating plasmid pJW563. **Plasmid** (1995) 34:105-118.
40. Antti Poso, Atte von Wright and Jukka Gynther: An empirical and theoretical study on mechanisms of mutagenic activity of hydrazine compounds. **Mutation Research** (1995) 332: 63-71.
41. Timo Rusanen, Boleslaw Suchocki, Tomasz Twardowski and Atte von Wright. The perception of genetechnology among high school students in Finland and in Poland. **Biotechnologia** (1996) 32:106 - 116.
42. Jussi Holmalahti, Jorma Mäki-Paakkanen, Lauri Kangas and Atte von Wright : Genotoxicity of dihydroabikoviromycin, a secondary metabolite of *Streptomyces anulatus*. **Mutation Research** (1996) 368:157-163
43. Jussi Holmalahti, Susanna Junttila and Atte von Wright: Rapid detection of DNA-binding compounds from *Streptomyces xanthochromogenes*. **Letters in Applied Microbiology** (1996) 23:231-233.
44. Minna Alander, Riitta Korpela, Maija Saxelin, Terttu Vilpponen-Salmela, Tiina Mattila-Sandholm and Atte von Wright: Recovery of *Lactobacillus rhamnosus* GG from human colonic biopsies: Preliminary results. **Nutrition Today Supplement** (1996) 31: 47S-48S
45. Minna Alander, Riitta Korpela, Maija Saxelin, Terttu Vilpponen-Salmela, Tiina Mattila-Sandholm and Atte von Wright: Recovery of *Lactobacillus rhamnosus* GG from human colonic biopsies **Letters in Applied Microbiology** (1997) 24:361-364
46. Jussi Holmalahti, Harri Santa, Hartmut Laatsch and Atte von Wright: Comparison of the lethal effects of different Actinomycins on a repair-deficient strain of *Escherichia coli* **Mutation Research** (1997) 391: 33 - 38
47. Anne Gravesen, Atte von Wright, Jytte Josephsen and Finn K. Vogensen: Replication regions of two pairs of incompatible lactococcal theta-replicating plasmids. **Plasmid** (1997) 38: 115 -127
48. Mona Arnold, Arja Reittu, Atte von Wright, Pertti Martikainen and Marja-Liisa Suihko: Bacterial degradation of styrene in waste gases using a peat filter. **Applied Microbiology and Biotechnology** (1997) 48: 738-744.
49. Reetta Satokari, Riikka Juvonen Atte von Wright and Auli Haikara: Detection of *Pectinatus* beer spoilage organisms by polymerase chain reaction. **Journal of Food Protection** (1997) 60: 1571-1573.
50. Jussi Holmalahti, Olavi Raatikainen, Atte von Wright, Hartmut Laatsch, Anders Spohr, Olav K. Lyngberg and Jens Nielsen: Production of dihydroabikoviromycin by *Streptococcus anulatus*. Production parameters and chemical characterization of genotoxicity. **Journal of Applied Microbiology** (1998) 85:61-68.
51. Pia Kontula, Johanna Jaskari, Lode Nollet, Ingrid de Smet, Atte von Wright, Kaisa Poutanen and Tiina Mattila-Sandholm: The colonization of the Simulated Human Intestinal Microbial Ecosystem (SHIME) by a probiotic strain fed in a fermented oat

product: Effects on the gastrointestinal microbiota. **Applied Microbiology and Biotechnology** (1998) 50: 246-252.

52. **Ilkka Helander, Hanna-Leena Alakomi, Kyösti Latva-Kala, Tiina Mattila-Sandholm, Irene Pol, Eddy J. Smid, Leon G.M. Gorris and Atte von Wright:** Characterization of the action of selected essential oil components on Gram-negative bacteria. **Journal of Agricultural and Food Chemistry** (1998) 46: 3590-3595
53. **Pia Kontula, Atte von Wright and Tiina Mattila-Sandholm.** Oat bran β -gluco- and xylo-oligosaccharides as fermentative substrates for lactic acid bacteria. **International Journal of Food Microbiology** (1998) 45:163-169
54. **Minja Miettinen, Minna Alander, Atte von Wright, Jaana Vuopio-Varkila, Philippe Marteau, Josh Huis in't Veld and Tiina Mattila-Sandholm:** The survival of and cytokine induction by lactic acid bacteria after passage through a gastrointestinal model. **Microbial Ecology in Health and Disease** (1998) 10: 141-147.
55. **Pia Kontula, Marja-Liisa Suihko, Atte von Wright and Tiina Mattila-Sandholm.** The effect of lactose derivatives on intestinal lactic acid bacteria. **Journal of Dairy Science** (1999) 82: 249-256.
56. **Minna Alander, Ingrid de Smet, Atte von Wright and Tiina Mattila-Sandholm:** The effect of probiotic strains on the microbiota of the Simulator of the Human Intestinal Microbial Ecosystem (SHIME). **International Journal of Food Microbiology** (1999) 46: 71-80.
57. **Reetta Satokari, Riikka Juvonen, Kirstie Mallison, Atte von Wright and Auli Haikara:** Detection of beer spoilage bacteria *Megasphaera* and *Pectinatus* by polymerase chain reaction and colorimetric microplate hybridization. **International Journal of Food Microbiology** (1998) 45: 119-127.
58. **Minna Alander, Reetta Satokari, Riitta Korpela, Maija Saxelin, Terttu Vilpponen-Salmela, Tiina Mattila-Sandholm and Atte von Wright:** Persistence of colonization of human colonic mucosa by a probiotic strain *Lactobacillus rhamnosus* GG after oral consumption. **Applied and Environmental Microbiology** (1999) 65: 351-354.
59. **Annalaura Stamatii, Paola Bonsi, Flavia Zucco, Roy Moezelaar, Hanna-Leena Alakomi, and Atte von Wright:** Toxicity of selected plant volatiles in microbial and mammalian short-term assays. **Food and Chemical Toxicology** (1999) 37: 813-823
60. **Pia Kontula, Marja-Liisa Suihko, Tapani Suortti, Maija Tenkanen, Tiina Mattila-Sandholm and Atte von Wright:** Isolation of lactic acid bacteria from human colonic biopsies enriched on lactose derivatives and on rye arabinoxyloligosaccharides. **Food Microbiology** (2000) 17:13-22.
61. **Tarja Hartikainen, Juhani Ruuskanen, Kaj Rätty, Atte von Wright and Pertti. J. Martikainen.** Physiology and taxonomy of *Thiobacillus* strain TJ330, which oxidizes carbon disulfide (CS_2). **Journal of Applied Microbiology** (2000) 89: 580-586.
62. **Camilla Cesena, Lorenzo Morelli, Minna Alander, Tuula Siljander, Elina Tuomola, Seppo Salminen, Tiina Mattila-Sandholm Terttu Vilpponen-Salmela, and Atte von Wright:** *Lactobacillus crispatus* and its non-aggregating mutant in human colonization trials. **Journal of Dairy Science** (2001) 84:1001-1110.

63. **Atte von Wright, Terttu Vilpponen-Salmela, Marta Pagès-Llopis, Kevin Collins, Barry Kiely, Fergus Shanahan and Colum Dunne.** The survival and colonic adhesion of *Bifidobacterium infantis* in patients with ulcerative colitis. *International Dairy Journal* (in press).
64. **Petri Muje, Juha Pursiainen, Paula Hyvönen, Atte von Wright and Olavi Raatikainen** Seasonal variation in storage properties of vendace (*Coregonus albula* L.) *Journal of Aquatic Food product Technology* (revised version submitted)
65. **Pia Kontula, Lode Nollet, Maria Saarela, Terttu Vilpponen-Salmela, Willy Verstraete, Atte von Wright and Tiina Mattila-Sandholm.** The effect of lactulose on the survival of *Lactobacillus rhamnosus* in the Simulator of the Human Intestinal Microbial Ecosystem (SHIME) and *in vivo*. *Microbial Ecology in Health and Disease* (revised version submitted)

2. Reviews

1. **Atte von Wright :** Lactic acid bacteria as important production organisms and as contaminants in som products and processes. In M. Korhola and V. Bäckström (editors) **Proceedings of the Comett Course on MICROBIAL CONTAMINANTS**, Helsinki 1991 and 1992. Foundation of Biotechnical and Industrial Fermentation Research (1993) 7 : 89 - 97.
2. **Atte von Wright and Mervi Sibakov:** Genetic modification of lactic acid bacteria. In S. Salminen and A. von Wright (editors) **Lactic Acid Bacteria** (1993) Marcel Dekker Inc. New York . pp.161-198.
3. **Seppo Salminen, Minna Laine, Atte von Wright, Jaana Vuopio-Varkila, Timo Korhonen and Tiina Mattila-Sandholm** Development of selection criteria for probiotic strains to assess their potential in functional foods: A Nordic and European approach. *Bioscience Microflora* (1996) 15: 61-67
4. **Ilkka Helander, Atte von Wright and Tiina Mattila-Sandholm:** Potential of lactic acid bacteria and novel antimicrobials against Gram-negative bacteria. *Trends in Food Science & Technology* (1997) 8: 146 - 150.
5. **Seppo Salminen, Atte von Wright, Lorenzo Morelli, Philippe Marteau, Dominique Brassard, Willem de Vos, Rangne Fondén, Maija Saxelin, Kevin Collins, Gunnar Mogensen, Stein-Erik Birkeland and Tiina Mattila-Sandholm:** Demonstration of safety of probiotics - a review. *International Journal of Food Microbiology* (1998) 44:93 - 106.
6. **Atte von Wright and Mervi Sibakov:** Genetic modification of lactic acid bacteria. In S. Salminen and A. von Wright (editors) **Lactic Acid Bacteria: Microbiology and Functional Aspects** (1997) Second edition, revised and expanded, Marcel Dekker Inc. New York, pp. 161- 210.
7. **Seppo Salminen and Atte von Wright:** Current probiotics – safety assured? *Microbial Ecology in Health and Disease* (1998) 10:68-77.
8. **Timo Rusanen, Atte von Wright, and Maria Rusanen:** Finland. In J. Durant, M.W. Bauer and G. Gaskell (editors) **Biotechnology in the Public Sphere. A European Sourcebook** (1998) Science Museum, London, pp 43-50.

9. **Wolfgang Kneifel, Tiina Mattila-Sandholm and Atte von Wright.** Probiotic Bacteria. Detection and estimation in fermented and non-fermented dairy products. In R.K. Robinson, C.A. Batt and P.D. Patel (editors) **Encyclopedia of Food Microbiology**, Academic Press, London, pp. 1783-1789.
10. **Atte von Wright and Seppo Salminen.** Probiotics: established facts and open questions. **European Journal of Gastroenterology and Hepatology** (1999) 11: 1195-1198
11. **Tiina Mattila-Sandholm, S. Blom, J.K. Collins, R. Crittenden, W. de Vos, C. Dunne, R. Fondén, G. Grenov, E. Isolauri, B. Kiely, P. Marteau, L. Morelli, A. Ouwehand, R. Reniero, M. Saarela, S. Salminen, M. Saxelin, E. Schiffrin, F. Shanahan, E. Vaughan and A. von Wright.** Probiotics: towards demonstrating efficacy. **Trends in Food Science and Technology.** (1999) 10: 393-399.
12. **Atte von Wright.** Probiotics and prebiotics, the current position. **Innovations in Food Technology** (February 2 000) , 34-36.
13. **Seppo Salminen, Atte von Wright, Arthur Ouwehand and Wilhelm Holzapfel.** Safety assessment of probiotics and starters. In M.R.Adams and M.J. Nout (editors) **Fermentation and Food Safety** (2001), Aspen Publishers Inc, Gaithersburg, Maryland, 239-251.

3. Research Reports (either in Finnish or Swedish)

1. **Raija Kallonen, Atte von Wright, Leena Tikkanen and Kirsti Kaustia:** Sisustusmateriaalienmyrkyllisyys tulipalossa, keskikorkeat lämpötilat. **Valtion teknillinen tutkimuskeskus.Tutkimuksia nro 278.** VTT. Offsetpaino. Espoo 1984
2. **Raija Kallonen, Atte von Wright and Leena Tikkanen:** Brandgasernas giftighet vid textilbränder. Förbränningstemperatur 600 °C. **Valtion teknillinen tutkimuskeskus. Tiedotteita nro 297.** VTT. Offsetpaino. Espoo 1984
3. **Saara Lampelo ja Atte von Wright :** Kansallinen solu- ja kudostutkimus. Tarvekartoitus. **TEKES-julkaisu 35/93.** Kuopio, 1993

4. Short Reports and Reviews in Finnish Publications

1. **Atte von Wright:** Mikrobiologiset menetelmät mutageenisuuden ja karsinogeenisuuden tutkimuksessa. **Duodecim** (1977) 93: 1063-1066.
2. **Atte von Wright:** Mutageenisuustutkimuksia Alankomaissa. **Kemisti** (1977) 5: 11-12.
3. **Atte von Wright:** Toksikologinen tutkimustoiminta VTT:n elintarvikelaboratoriossa. **Elintarvikeylioppilas** (1981) 4:17-19.
4. **Atte von Wright:** Ravinnon valkuaisaineiden mutageeniset kuumennustuotteet. **Ympäristö ja terveys** (1982) 2-3:164-166.
5. **Mauri Aalto, Atte von Wright, Matti Jahkola and Markku Hakala:** Kaksi botulismitapausta Suomessa kesällä 1981. **Ympäristö ja terveys** (1982) 5: 370-373.

- 6 **Atte von Wright:** Sienten karsinogeeniset yhdisteet. **Elintarvikeylioppilas** (1983) 1: 20-2
- 7 **Atte von Wright and Leena Tikkanen:** Toksikologinen tutkimustoiminta VTT:n elintarvikelaboratoriossa. **Kemia-Kemi** (1983) 3: 249-251.
- 8 **Pirkko Kivelä-Ikonen and Atte von Wright:** Lisäaineiden mutageenisuus. In S. Salminen and A. von Wright (editors) "**Elintarvikelisiä aineet, käyttö ja turvallisuus**" Weilin + Göös, Espoo (1985) pp. 87 - 110.
- 9 **Eeva Peltonen, Seppo Salminen and Atte von Wright:** Rakenne - vaikutussuhteet. In S. Salminen and A. von Wright (editors) "**Lisäaineet, käyttö ja turvallisuus**" Weilin + Göös, Espoo (1985) pp 154 - 162.
- 10 **Atte von Wright, Seppo Lindroth and Irma Suomalainen:** Pesu- ja desinfektioaineiden tehon testaus. kahden eri menetelmän vertailu. **Ympäristö ja terveys** (1985) 1: 17-21.
- 11 **Veijo Meriläinen, Seppo Salminen, Jouko Setälä and Atte von Wright:** Maitohappobakteerit meijeriteollisuuden näkökulmasta. **Kemia-Kemi** (1987) 14:212-216.
- 12 **Atte von Wright, Olavi Raatikainen and Saara Lampelo:** Mikropainovoiman vaikutuksia bioprosessointiin. In S.-P. Hannula, S. Lampelo, M. Leskelä, E. Länsimies, O. Raatikainen and A. von Wright (editors) "**Mikropainovoimatutkimus ja Suomi**" **TEKES-julkaisu 28/91:13-30.**
- 13 **Atte von Wright:** Chapters: "Maitohappobakteereiden metabolia" and "Maitohappobakteereiden genetiikka" in S. Mantere-Alhonen (editor) "**Maidon ja maitovalmisteiden mikrobit**" Valtion painatuskeskus AKH, Helsinki (1990), pp. 74-87.
- 14 **Atte von Wright:** Elintarvikkeiden luontaiset haitalliset aineet. In K. Louekari, S. Salminen and A. von Wright (editors) "**Elintarvikkeiden turvallisuus**" Otatieto Oy, Tampere (1995): pp.86-105.
- 15 **Jussi Holmalahti and Atte von Wright.** *Streptomyces*-bakteereiden geneettinen muokkaus. **Dosis** (1996) 12: 17-15.
- 16 **Reetta Satokari, Atte von Wright and Auli Haikara.** Oluen mikrobiologisten kontaminanttien osoittaminen PCR-tekniikalla. **Mallas ja olut** (1997) no 1, 3 -10.
- 17 **Seija Jaakkola, Taina Jalava, Eeva Saaristo, Pekka Huhtanen, Eija Skyttä, Atte von Wright and Auli Haikara.** Nurmirehun biologisen säilönnän optimointi. **Maatalouden tutkimuskeskuksen julkaisuja** (1999) 55: 33-36.
- 18 **Minna Alander, Reetta Satokari, Maria Saarela, Tarja Suomalainen, Riitta Korpela, Maija Saxelin, Terttu Vilpponen-Salmela, Tiina Mattila-Sandholm and Atte von Wright.** Probioottisilla maitohappobakteereilla fermentoitujen maitovalmisteiden kliiniset suolistovaikutukset. **Maatalouden tutkimuskeskuksen julkaisuja** (1999) 55: 121-126.
- 19 **Atte von Wright and Hannu Mykkänen:** Ravinto ja suolistofloora In A. Aro, M. Mutanen and M. Uusitupa (editors) "**Ravitsemustiede**" Duodecim, Helsinki (1999), pp. 231-238.

5. Textbooks (in Finnish and international circulation)

- 1 **Seppo Salminen and Atte von Wright (editors) :** "**Elintarvikelisiä aineet, käyttö ja turvallisuus**" Weilin + Göös, Espoo (1985) 293 pages.

2. **Seppo Salminen and Atte von Wright (editors): Lactic Acid Bacteria.** Marcel Dekker Inc. New York (1993) 456 pages
3. **Kimmo Louekari, Seppo Salminen and Atte von Wright (editors): Elintarvikkeiden turvallisuus** Otatieto Oy, Tampere (1995) 153 pages
4. **Seppo Salminen and Atte von Wright (editors) Lactic Acid Bacteria: Microbiology and Functional Aspects** Second edition, revised and expanded, Marcel Dekker Inc. New York (1997) 617 pages

6. Patents

1. **Atte von Wright, Seppo Sivelä and Soile Tynkkynen (1989)** Hapatteille, erityisesti meijerihapatteille soveltuva vektoriplasmidi (A Vector Plasmid Suitable for Starters, Especially for Dairy Starters) Patentti ja rekisterihallitus, Finnish patent number 77056
2. **Ilkka Palva, Mervi Sibakov, Teija Koivula and Atte von Wright (1989)** Novel DNA sequences and methods of use. US Patent No 5242821
3. **Stephen Wessels, Jytte Josephsen, Finn Vogensen, Egil Waagner Nielsen, Atte von Wright and Soile Tynkkynen (1994)** Cloning vector for use in lactic acid bacteria and a method for constructing the same. European patent No 0506789
4. **Atte von Wright, Tiina Mattila-Sandholm, Hanna-Leena Alakomi, Jorma Hirn and Tapio Palmu (1997)** Biologinen menetelmä Salmonellan eliminoimiseksi prosesseista ja rakenteista (A biological method for the elimination of Salmonella from processes and structures) A Finnish patent application No FI 974643
5. **Päivi Myllärinen, Pirkko Forssell, Atte von Wright, Minna Alander, Tiina Mattila-Sandholm, Kaisa Poutanen (2000)** Mikro-organismeja sisältävät tärkkelyskapselit ja niiden valmistusmenetelmä (Starch encapsulated micro-organisms and the method for their preparation), Finnish patent No FI 104405